

CLAIMS

1. Use of a compound capable of modulating the activity of calpain for the preparation of a pharmaceutical composition for the treatment of cancer.

5 2. Use according to claim 1, characterized in that the compound is a protein or a polypeptide which is an inhibitor of the activity of calpain, or a nucleic acid sequence encoding such a polypeptide or protein.

10 3. Use according to claim 2, characterized in that the compound is a protein or a polypeptide which is a specific inhibitor of the activity of calpain on the wild-type p53 protein, or a nucleic acid sequence encoding such a polypeptide or protein.

15 4. Use according to claim 2 or 3, characterized in that the nucleic acid is part of a vector.

20 5. Use according to claim 4, characterized in that the nucleic acid is part of a viral vector, chosen from adenoviruses, retroviruses and adeno-associated viruses.

6. Use according to claim 4, characterized in that the nucleic acid is part of a lipid liposomal vector.

25 7. Use according to one of the preceding claims, characterized in that the compound is a nucleic acid encoding all or part of calpastatin.

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9. Use according to claim 8, characterized in that the nucleic acid is chosen from the sequences SEQ ID No. 1 and 2.

11. Use according to one of claims 1 to 6, characterized in that the compound is a derivative of calpain capable of specifically degrading the mutated p53 proteins.

13. Vector according to claim 12, characterized in that it is chosen from the adenoviruses, retroviruses and adeno-associated viruses.

15. Vector according to claim 12,
characterized in that it comprises a sequence encoding
a derivative of calpain capable of specifically

degrading the mutated p53 proteins.

16. Pharmaceutical composition comprising a nucleic acid sequence encoding all or part of calpastatin or a derivative of calpain capable of specifically degrading the mutated p53 proteins.

17. Composition according to claim 16, formulated for intra-tumour administration.

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